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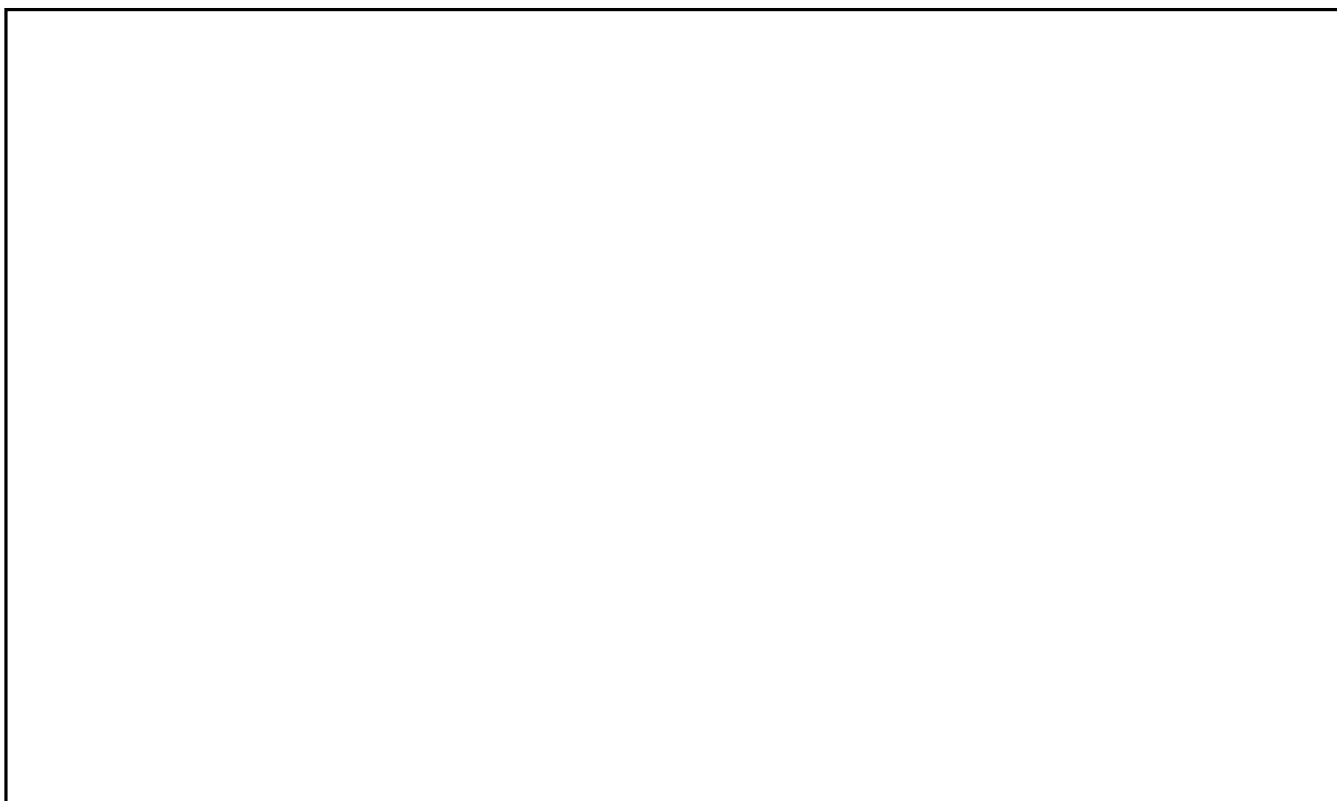
1. C/RED	WJ
2. DC/RED	WJ
3. SA for PRA	WJ
4. Secy to CH	
5. Secy	
Comments: note planned EXRAND visits in A-H III - pretty rich	

EXRAND-M-28-70  
3 February 1970

COMIREX SUBCOMMITTEE  
FOR  
EXPLOITATION RESEARCH AND DEVELOPMENT

Minutes of Meeting Held in IAS Conference Room  
0900-1130, Wednesday, 21 January 1970

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1. Approval of Minutes

The minutes were approved as corrected as follows: Paragraph 4.b. change the last sentence to read "... to investigate the feasibility of developing equipment which provides ..., " etc.

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2. Announcements

a. [ ] introduced [ ] USAF, who is slated to be the next Chairman of EXRAND commencing with the 18 February meeting.

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Declass Review by NIMA/DOD

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b. [ ] invited members to attend the special briefing portion of the COMIREX meeting on 22 January to hear the combined Community color evaluation briefing on SO-242 and SO-360.

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c. The Air Force member relayed a question posed by Joint DoD Imagery Interpretation Keys Committee to EXRAND: "What equipment development should be programmed for P.I. keys? What format used? Chips to be used? How will the Community use the product?" The EXRAND membership did not believe the questions were directly related to EXRAND at this time. However, EXRAND should pursue a "national" interest in the status of chips/selective target printing as R&D is affected. The NPIC member was asked by the USAF member to meet separately concerning use of the P.I. Keys. The [ ] member stated that the eventual solution as to how keys are used would be directly related to the solution of selective target printing and readout.

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d. [ ], as Technical Task Team Chairman, presented preliminary response to the EXSUBCOM recommendations regarding development of equipment for the P.I. to produce copies of selective target prints. The attached paper reflects the response from the members of the Team. The EXRAND members agreed that the Community is well prepared to develop the implied equipment, and is in fact pursuing such projects now. [ ] were charged to prepare an EXRAND response to EXSUBCOM on this matter. A discussion ensued concerning the several developments in being or underway. There is a new positive-to-positive diazo (heat) processor now in operation at NPIC which, with further modification, may answer the requirement. There are several other related projects noted in the Second Annual Report of the Technical Task Team. A new [ ] process system was also mentioned which appears promising and which would also eliminate the need for duplicate negatives. The CIA member suggested that the Technical Task Team provide a list of new processing methods, including those mentioned, in order to provide a matrix of trade-offs between the various reproduction processing techniques. The EXRAND members also proposed that members should now be encouraged to support and inspire programs which would go beyond that accomplished on the P.I. selective target/chip printing already submitted within the Community. The Navy member was asked by the Chairman whether Navy has a requirement for positive-to-positive prints, the answer was affirmative. The other members were then asked to pursue requirements in this area. The [ ] member added that he had a requirement to do away with duplicate negatives as an objective to save time and funds. He believed that any efforts in this area would cause significant savings; that these savings could then be channeled to other R&D projects.

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e. [ ] commented on the RS film processing technique which he observed on a recent trip to [ ]. He presented samples of film and also a brochure, and described the latest status of the development.

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f. As a result of the Color Committee's work, NPIC had been tasked to experiment with the SO-242. One of the remarkable findings was the high quality of the green layer on the color mission duplication, which was superior to the color resolution and comparable to SO-3404.

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g. [ ] announced that there was to be an RED/TSSG-sponsored briefing in February by [ ]. This outstanding briefing concerns the human visual response to color. EXRAND members were invited; exact date and time will be provided by [ ].

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h. [ ] announced that the EXRAND briefings on equipment for future systems for COMIREX had been scheduled as follows.

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Part one: 5 February, 1000, NPIC Auditorium, MC&G Exploitation Equipment.

Part two: 19 February, 1000, NPIC Auditorium, P.I. Exploitation Equipment.

### 3. Old Business

a. The Chairman stated that the Technical Task Team Second Annual Report had been forwarded to the Chairman of COMIREX.

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b. The Chairman, with EXRAND membership concurrence, charged the Procurement Coordinating Team to devise a format for measuring the value of EXRAND's efforts in: "Benefits derived and savings to the Government due to coordination of procurement of imagery exploitation equipment, methods, procedures and systems." Some measurement of the savings impact with the Community is required by COMIREX.

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c. [ ] reported on the status of development of the 1540 Light Tables. Essentially there is no difference in price estimate than that noted in previous meetings. Both the [ ] tables are on schedule. [ ] stated that those members involved in the

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planned purchase of the tables could, with prior arrangements, accompany  
the NPIC R&D project officer to visit the manufacturer on the pre-  
acceptance trip. The [redacted] model is scheduled for delivery at NPIC  
on 20 February, the [redacted] model on 24 February. 25X1

4. New Business

25X1 a. [redacted] 25X1  
presented a plan for EXRAND briefings and visits  
for the Calendar Year. Three proposals were made: (1) Exploitation  
devices, (2) Future EXRAND trips, and (3) Subjects for briefings or study.  
After a discussion period the membership agreed to follow the plans as  
attached. The Executive Secretary will provide for the inclusion of  
these events in EXRAND activities and agendas.

25X1 b. [redacted] 25X1  
The Chairman announced that a progress report on the activities  
of EXRAND for the last six months of 1969 had been forwarded to the  
Chairman, COMIREX. [redacted] briefed on the substance of the re-  
port which will be forwarded to each member.

25X1 c. [redacted] 25X1  
presented a resume of his prepared briefing for COMIREX  
on 19 February. An outline of that briefing is attached: "Exploitation  
Equipment Development for On-Coming Acquisition Systems."

5. Adjournment

25X1 a. [redacted] 25X1  
The EXRAND representatives joined in an expression of best  
wishes to [redacted] upon his retirement from the Services and  
departure from EXRAND.

b. [redacted] 25X1  
The meeting adjourned and the members proceeded to the Naval  
Officer's Club, WNY, for a farewell luncheon for [redacted] 25X1

[redacted] 25X1  
Executive Secretary, EXRAND

Distribution:  
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Attachment I

MEMORANDUM FOR: Chairman, EXRAND

SUBJECT : EXSUBCOM Recommendation Regarding P.I. Capability to Produce Exploitation Quality Prints

REFERENCE : COMIREX-M-77, 14 August 1969, Tab E

1. In the reference EXSUBCOM recommended that COMIREX, "request EXRAND to investigate the feasibility of developing equipment which provides imagery interpreters an individual capability to produce exploitation quality selective target prints."

2. In the EXRAND meeting of 12 November 1969, the Chairman of the Technical Task Team was requested to obtain comments on this EXSUBCOM recommendation from Technical Task Team members.

3. Comments were obtained by posing the following statements to the Task Team members and requesting a true, false, or not applicable response with regard to each of the statements:

- a. Recommendation significantly relates to our R&D program.
- b. Recommendation is covered by our R&D program.
- c. Recommendation implies significant development costs which must be added to our R&D program.

4. Following is a tabulation of the responses received to the above request:

Statement	a.	b.	c.
CIA/ORD	T	F	T
DIAASO	NA	NA	NA
DIARD-3	NA	NA	NA (1)
NRTSC	T	F	F
ACSI-DD	F	F	F
NPIC	T	T	F
RADC	T	T	F

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Attachment I (cont'd)

SUBJECT: EXSUBCOM Recommendation Regarding P.I. Capability to Produce  
Exploitation Quality Prints

NOTE: (1) DIARD-3 concurs with the need for the development of such a  
capability but has no viable R&D program with which to  
accomplish same.



Chairman, Technical Task Team

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Distribution:

Cy - EXRAND members

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Attachment II

Proposed Briefings for EXRAND on Exploitation Devices

New equipment is being developed as a result of new acquisition systems. Significant new imagery exploitation devices and systems will cause some impact in the Community. It is proposed that briefings be scheduled as listed below.

- A. Twin-Stage On-Line P.I. Comparator
- B. Automatic Stereo Scanner
- C. Automatic Target Recognition
- D. Status of Mensuration Computer Programs
- E. I.I.S. System
- F. Status of COINS

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Attachment III

Plan for EXRAND Visits

We should now complete plans for a series of visits during the year commencing in March. Providing arrangements can be made and permission is granted, it is proposed that the following trips be made for a group of not more than 15 EXRAND representatives.

18 March:	Reston, Virginia. Geological Survey. Depart NPIC after the EXRAND meeting 1130. Lunch en route. Visit facility 1345-1615.	
20-22 April:	Westover AFB, Mass. Visit SPPF. Depart Boston for Omaha, Nebraska, SAC, for <span style="border: 1px solid black; display: inline-block; width: 60px; height: 15px;"></span> and Recon. Systems.	25X1
25-29 May:	<span style="border: 1px solid black; display: inline-block; width: 450px; height: 35px;"></span>	25X1
22-24 June:	St. Louis, Mo. ACIC.	
September:	It is suggested that EXRAND members make a trip to WestPAC and Far East, Hawaii-Japan-Okinawa. 3 week trip to visit exploitation facilities. This will require a major planning/liaison effort. Comment is requested.	
26-27 October:	Sumter, S.C., Shaw AFB. Visit TARC.	

No arrangements have to date been made for any of the trips; however, the Executive Secretary will soon start implementing the plan.

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Attachment IV

Proposed Subjects for Briefings and/or Study

EXRAND should investigate the future reconnaissance systems, where appropriate, and arrive at some conclusion as to what the future holds for imagery exploitation devices and systems. It is proposed that during the year, EXRAND hear about the following subjects:

- A. Exploitation challenge of the next acquisition system.
- B. Film Handling System and exploitation of the next acquisition system.
- C. Impact of Near Real Time systems on imagery exploitation and interpretation devices and methodology.
- D. National Reconnaissance Policy and its relationship to imagery exploitation equipment of the future.
- E. Digital Image Restoration; the impact upon interpretation.
- F. Selective Target/Area Printing.
- G. Multi-Sensor/Multi Spectral.
- H. Signal Analysis.

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Attachment V

Exploitation Equipment Development

For On-Coming Acquisition

Systems--Outline

- I. Impact on Exploitation R&D--New System
- II. Color
- III. Operational Requirements
- IV. Direct Impact Factors
  - A. Film Resolution
  - B. Scale
  - C. Film Size  
(Width & Format Length)
  - D. Stereo Overlap
  - E. P.G. Data
  - F. Film Vol/Unit Time  
(Roll length, R-O, Reproduction, Handling, Storage)
- V. Indirect Impact Factors
  - A. Ground Resolution
  - B. Operational Objectives  
(Search - Surveillance)
  - C. Scheduling
- VI. Exploitation R&D Program - Direct Response
  - A. Ops Analysis  
(Search Procedure, Chip System, TGT Indexing)
  - B. 1540 Film Viewing System  
(Light Table, Zoon 240, Mod II Rhomboid)
  - C. Automatic TGT Index System
  - D. Data Block Reader
  - E. High Precision Stereo Comparator
  - F. Automated Stereoscaner
  - G. Automated Info Handling  
(Collateral Data, Report Compilation, Edit & Pub)

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Attachment V (Cont'd)

VII. Exploitation R&D Program - Indirect Response

- A. Chip System Analysis
- B. P.I. Scan & Search
- C. Wide Field High Power Anamorphic Stereoviewer
- D. Dig. Measuring Lt. Table
- E. Twin-Stage O/L P.I. Comparator
- F. P.I. Enlarging & Duping

VIII. NPIC R&D Categories (Not Used)

- A. Imagery Interpretation Process Research
- B. Imagery Information Technology
- C. Image Analysis & Manipulation
- D. Image Interpretation Instruments & Techniques
- E. Reproduction
- F. Mensuration
- G. Test & Evaluation
- H. EOI

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